

st99021seq1t.ST25  
SEQUENCE LISTING

<110> DARTEIL, Raphael  
CROUZET, Joel  
STAELS, Bart  
MAHFOUDI, Abderrahim

<120> SYSTEM OR REGULATION OF EXPRESSION USING PPAR NUCLEAR RECEPTORS

<130> ST99021 US PCT

<140> 10/018,729

<141> 2001-12-18

<150> FR 99/07957

<151> 1999-06-22

<150> US 60/149,721

<151> 1999-08-20

<150> PCT/FR00/01744

<151> 2000-06-22

<160> 28

<170> PatentIn version 3.0

<210> 1

<211> 19

<212> DNA

<213> Artificial

<220>

<223> sequence of a site in the PPAR response element

<400> 1

tcaaccttta ccctggtag

19

<210> 2

<211> 27

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 2

tcgccaaagct tctcgtgatc tgcggca

27

<210> 3

<211> 37

<212> DNA

<213> Artificial

<220>

<223> primer

st99021seq1t.ST25

<400> 3  
acgtgtcgac actagtggct agaggatctc taccagg 37

<210> 4  
<211> 48  
<212> DNA  
<213> Artificial

<220>  
<223> primer

<400> 4  
cgatgggtacc ctcgagcaat gtgctagcga gatccttcaa cctttacc 48

<210> 5  
<211> 13  
<212> DNA  
<213> Artificial

<220>  
<223> sequence of site in PPAR response element

<400> 5  
agggtcaaagg tca 13

<210> 6  
<211> 69  
<212> DNA  
<213> Artificial

<220>  
<223> primer

<400> 6  
acgtgtcgac actagtcaaa actagggtcaa aggtcacgga aaactagggtc aaagggtcacg 60  
gaaaactag 69

<210> 7  
<211> 64  
<212> DNA  
<213> Artificial

<220>  
<223> primer

<400> 7  
cgatgggtacc ctcgagcaat gtgctagccg tgacctttga cctagttttc cgtgaccttt 60  
gacc 64

<210> 8  
<211> 32  
<212> DNA

st99021seq1t.ST25

<213> Artificial

<220>

<223> primer

<400> 8

acgtagatct cggtaggcgt gtacggtggg ag

32

<210> 9

<211> 29

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 9

acgtaagctt ctatggaggt caaaacagc

29

<210> 10

<211> 21

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 10

ggtttgctga atgtgaagcc c

21

<210> 11

<211> 42

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 11

agtctctaga gctacgcgta caagtccttg tagatctcct gc

42

<210> 12

<211> 32

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 12

agtcacgcgt gggcgatctt gacaggaaag ac

32

<210> 13

<211> 21

st99021seq1t.ST25

<212> DNA  
 <213> Artificial  
  
 <220>  
 <223> primer  
  
 <400> 13  
 gcctttgagt gagctgatac c 21  
  
 <210> 14  
 <211> 35  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> primer  
  
 <400> 14  
 agtcactagt aagctttttg ccgccagaac acagg 35  
  
 <210> 15  
 <211> 36  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> primer  
  
 <400> 15  
 agtcactagt ccatggctgc ccagtgcctc acgacc 36  
  
 <210> 16  
 <211> 21  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> primer  
  
 <400> 16  
 caggtttgct gaatgtgaag c 21  
  
 <210> 17  
 <211> 40  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> primer  
  
 <400> 17  
 tgacgtgtcg acctagtaca agtccttgta gatctcctgc 40  
  
 <210> 18

st99021seq1t.ST25

<211> 31  
<212> DNA  
<213> Artificial

<220>  
<223> primer

<400> 18  
agtcgctgac gcttcgagca gacatgataa g 31

<210> 19  
<211> 35  
<212> DNA  
<213> Artificial

<220>  
<223> primer

<400> 19  
agtcgctagc gacggatcct tatcgatttt accac 35

<210> 20  
<211> 50  
<212> DNA  
<213> Artificial

<220>  
<223> primer

<400> 20  
gtcagctagc ctactcgagc caccatgggt gaaactctgg gagattctcc 50

<210> 21  
<211> 42  
<212> DNA  
<213> Artificial

<220>  
<223> primer

<400> 21  
tacggggtagc ccagacatga taagatacat tgatgagttt gg 42

<210> 22  
<211> 33  
<212> DNA  
<213> Artificial

<220>  
<223> primer

<400> 22  
gtcagctagc cggtaggcgt gtacgggtggg agg 33

st99021seq1t.ST25

<210> 23  
<211> 33  
<212> DNA  
<213> Artificial

<220>  
<223> primer

<400> 23  
tacgctcgag cttctatgga ggtcaaaaca gcg

33

<210> 24  
<211> 750  
<212> PRT  
<213> Homo sapiens

<400> 24

Met	Gly	Glu	Thr	Leu	Gly	Asp	Ser	Pro	Ile	Asp	Pro	Glu	Ser	Asp	Ser	1	5	10	15
Phe	Thr	Asp	Thr	Leu	Ser	Ala	Asn	Ile	Ser	Gln	Glu	Met	Thr	Met	Val	20	25	30	
Asp	Thr	Glu	Met	Pro	Phe	Trp	Pro	Thr	Asn	Phe	Gly	Ile	Ser	Ser	Val	35	40	45	
Asp	Leu	Ser	Val	Met	Glu	Asp	His	Ser	His	Ser	Phe	Asp	Ile	Lys	Pro	50	55	60	
Phe	Thr	Thr	Val	Asp	Phe	Ser	Ser	Ile	Ser	Thr	Pro	His	Tyr	Glu	Asp	65	70	75	80
Ile	Pro	Phe	Thr	Arg	Thr	Asp	Pro	Val	Val	Ala	Asp	Tyr	Lys	Tyr	Asp	85	90	95	
Leu	Lys	Leu	Gln	Glu	Tyr	Gln	Ser	Ala	Ile	Lys	Val	Glu	Pro	Ala	Ser	100	105	110	
Pro	Pro	Tyr	Tyr	Ser	Glu	Lys	Thr	Gln	Leu	Tyr	Asn	Lys	Pro	His	Glu	115	120	125	
Glu	Pro	Ser	Asn	Ser	Leu	Met	Ala	Ile	Glu	Cys	Arg	Val	Cys	Gly	Asp	130	135	140	
Lys	Ala	Ser	Gly	Phe	His	Tyr	Gly	Val	His	Ala	Cys	Glu	Gly	Cys	Lys	145	150	155	160
Gly	Phe	Phe	Arg	Arg	Thr	Ile	Arg	Leu	Lys	Leu	Ile	Tyr	Asp	Arg	Cys	165	170	175	
Asp	Leu	Asn	Cys	Arg	Ile	His	Lys	Lys	Ser	Arg	Asn	Lys	Cys	Gln	Tyr	180	185	190	
Cys	Arg	Phe	Gln	Lys	Cys	Leu	Ala	Val	Gly	Met	Ser	His	Asn	Ala	Ile	195	200	205	
Arg	Phe	Gly	Arg	Met	Pro	Gln	Ala	Glu	Lys	Glu	Lys	Leu	Leu	Ala	Glu				

st99021seq1t.ST25

210		215		220
Ile Ser Ser Asp Ile Asp Gln Leu Asn Pro Glu Ser Ala Asp Leu Arg				
225		230		235 240
Ala Leu Ala Lys His Leu Tyr Asp Ser Tyr Ile Lys Ser Phe Pro Leu				
	245		250	255
Thr Lys Ala Lys Ala Arg Ala Ile Leu Thr Gly Lys Thr Thr Asp Lys				
	260		265	270
Ser Pro Phe Val Ile Tyr Asp Met Asn Ser Leu Met Met Gly Glu Asp				
	275		280	285
Lys Ile Lys Phe Lys His Ile Thr Pro Leu Gln Glu Gln Ser Lys Glu				
	290		295	300
Val Ala Ile Arg Ile Phe Gln Gly Cys Gln Phe Arg Ser Val Glu Ala				
305		310		315 320
Val Gln Glu Ile Thr Glu Tyr Ala Lys Ser Ile Pro Gly Phe Val Asn				
	325		330	335
Leu Asp Leu Asn Asp Gln Val Thr Leu Leu Lys Tyr Gly Val His Glu				
	340		345	350
Ile Ile Tyr Thr Met Leu Ala Ser Leu Met Asn Lys Asp Gly Val Leu				
	355		360	365
Ile Ser Glu Gly Gln Gly Phe Met Thr Arg Glu Phe Leu Lys Ser Leu				
	370		375	380
Arg Lys Pro Phe Gly Asp Phe Met Glu Pro Lys Phe Glu Phe Ala Val				
385		390		395 400
Lys Phe Asn Ala Leu Glu Leu Asp Asp Ser Asp Leu Ala Ile Phe Ile				
	405		410	415
Ala Val Ile Ile Leu Ser Gly Asp Arg Pro Gly Leu Leu Asn Val Lys				
	420		425	430
Pro Ile Glu Asp Ile Gln Asp Asn Leu Leu Gln Ala Leu Glu Leu Gln				
	435		440	445
Leu Lys Leu Asn His Pro Glu Ser Ser Gln Leu Phe Ala Lys Leu Leu				
	450		455	460
Gln Lys Met Thr Asp Leu Arg Gln Ile Val Thr Glu His Val Gln Leu				
465		470		475 480
Leu Gln Val Ile Lys Lys Thr Glu Thr Asp Met Ser Leu His Pro Leu				
	485		490	495
Leu Gln Glu Ile Tyr Lys Asp Leu Tyr Ala Trp Ala Ile Leu Thr Gly				
	500		505	510
Lys Thr Thr Asp Lys Ser Pro Phe Val Ile Tyr Asp Met Asn Ser Leu				
	515		520	525

st99021seq1t.ST25

```

Met Met Gly Glu Asp Lys Ile Lys Phe Lys His Ile Thr Pro Leu Gln
530                               540

Glu Gln Ser Lys Glu Val Ala Ile Arg Ile Phe Gln Gly Cys Gln Phe
545                               555                               560

Arg Ser Val Glu Ala Val Gln Glu Ile Thr Glu Tyr Ala Lys Ser Ile
565                               570                               575

Pro Gly Phe Val Asn Leu Asp Leu Asn Asp Gln Val Thr Leu Leu Lys
580                               585                               590

Tyr Gly Val His Glu Ile Ile Tyr Thr Met Leu Ala Ser Leu Met Asn
595                               600                               605

Lys Asp Gly Val Leu Ile Ser Glu Gly Gln Gly Phe Met Thr Arg Glu
610                               615                               620

Phe Leu Lys Ser Leu Arg Lys Pro Phe Gly Asp Phe Met Glu Pro Lys
625                               630                               635                               640

Phe Glu Phe Ala Val Lys Phe Asn Ala Leu Glu Leu Asp Asp Ser Asp
645                               650                               655

Leu Ala Ile Phe Ile Ala Val Ile Ile Leu Ser Gly Asp Arg Pro Gly
660                               665                               670

Leu Leu Asn Val Lys Pro Ile Glu Asp Ile Gln Asp Asn Leu Leu Gln
675                               680                               685

Ala Leu Glu Leu Gln Leu Lys Leu Asn His Pro Glu Ser Ser Gln Leu
690                               695                               700

Phe Ala Lys Leu Leu Gln Lys Met Thr Asp Leu Arg Gln Ile Val Thr
705                               710                               715                               720

Glu His Val Gln Leu Leu Gln Val Ile Lys Lys Thr Glu Thr Asp Met
725                               730                               735

Ser Leu His Pro Leu Leu Gln Glu Ile Tyr Lys Asp Leu Tyr
740                               745                               750

```

<210> 25  
 <211> 467  
 <212> PRT  
 <213> Homo sapiens

<400> 25

```

Met Met Gly Glu Asp Lys Ile Lys Phe Lys His Ile Thr Pro Leu Gln
1                               5                               10                               15

Glu Gln Ser Lys Glu Val Ala Ile Arg Ile Phe Gln Gly Cys Gln Phe
20                               25                               30

Arg Ser Val Glu Ala Val Gln Glu Ile Thr Glu Tyr Ala Lys Ser Ile
35                               40                               45

Pro Gly Phe Val Asn Leu Asp Leu Asn Asp Gln Val Thr Leu Leu Lys

```





st99021seq1t.ST25

Leu Asp Asp Ser Asp Leu Ala Ile Phe Ile Ala Val Ile Ile Leu Ser  
 370 375 380

Gly Asp Arg Pro Gly Leu Leu Asn Val Lys Pro Ile Glu Asp Ile Gln  
 385 390 395 400

Asp Asn Leu Leu Gln Ala Leu Glu Leu Gln Leu Lys Leu Asn His Pro  
 405 410 415

Glu Ser Ser Gln Leu Phe Ala Lys Leu Leu Gln Lys Met Thr Asp Leu  
 420 425 430

Arg Gln Ile Val Thr Glu His Val Gln Leu Leu Gln Val Ile Lys Lys  
 435 440 445

Thr Glu Thr Asp Met Ser Leu His Pro Leu Leu Gln Glu Ile Tyr Lys  
 450 455 460

Asp Leu Tyr  
 465

<210> 26  
 <211> 30  
 <212> DNA  
 <213> Artificial

<220>  
 <223> primer

<400> 26  
 cccggttacat aacttacggt aaatggcccg

30

<210> 27  
 <211> 30  
 <212> DNA  
 <213> Artificial

<220>  
 <223> primer

<400> 27  
 gggacgcgct tctacaaggc gctggccgaa

30

<210> 28  
 <211> 30  
 <212> DNA  
 <213> Artificial

<220>  
 <223> primer

<400> 28  
 cgactctaga agatcttgcc ccgcccagcg

30